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4TH ANNUAL DELMARVA FREIGHT SUMMIT

TRANSPORTATION & AGRIBUSINESS

- × Transportation is critical to agribusiness
- Agriculture is largest user of freight transportation in the United States
 - + More than 30% of all ton-miles is ag-related
 - + Transportation network used by agribusiness
 - × Highway
 - × Rail
 - × Water

TRANSPORTATION SUPPORTS RURAL AMERICA

 Agriculture & agribusiness provide solid base for rural communities

- + Only 1 in 10 jobs—most jobs come from
 - × Services
 - × Government
 - × Retail trade
 - × Wholesale trade

+ Agribusiness & farming generates much of the economic activity

TRANSPORTATION SUPPORTS RURAL AMERICA

- Transportation supports jobs outside agricultural sector
 - + Manufacturing is critical to rural America
 - × Employs 15% of rural workforce
 - × Is much more important to rural areas than metropolitan areas
 - × Transportation is critical for rural areas to maintain
 - * Manufacturing and
 - * Commercial establishments

20th century saw significant changes in agriculture





20th century saw significant changes in agriculture



- 20th century saw significant changes in agricultural transportation
 - + Early 20th century saw little export of ag products
 - × Mostly subsistence farming
 - + Rapid change occurred in short time frame
 - x In 1921 Delaware Secretary of State Alden Benson reported that:
 - * Marvelous, smooth, hard-surfaced roads...enable farmers to find more profitable markets for their products
 - + Highways opened new markets to farmers

RURAL TRANSPORTATION

- 20th century saw significant changes in agricultural transportation
 - + Railroads dominated transportation until after World War II
 - + Trucks began to overtake the rails after the war aided by
 - × Better roads
 - × Better trucks and engines
 - × Refrigerated trailers

× Water transportation

- + Wicomico River has made Salisbury an important shipping point for barge traffic on the peninsula
- + Nanticoke River is vital waterway for barge traffic in and out of Western Sussex County

- Transportation challenges in agribusiness on Delmarva same challenges facing all U.S. transportation
 - + Current government oversight is fragmented × Each mode regulated by its own agency
 - + Need to view transportation as a system
 - × Agribusiness would benefit by planning & oversight that consider the system as a whole

- Access to peninsula is limited to small number of access points
 - + Highway bridges (& tunnel combo) across the Chesapeake Bay (2 highway points)
 - + Railroad car float across Chesapeake Bay (1 rail point)
 - + Ferry service across Delaware Bay (1 highway point)
 - + Highway & rail bridges across C & D Canal
 - × 5 highway points
 - × 1 rail point
- Disruption of any of these access points would create significant transportation & economic hardship

× Rail service

+ Past 65 years has seen

- × Decline in rail service
 - ★ Railroad shipments nose-dived
 - * Agribusiness rail sidings closed
 - Highway picked up much of the slack
 - Infrastructure crumbled
- × And some improvements in recent years
 - * Agribusiness rail sidings rebuilt & new ones created
 - * Grain and other agribusiness imports to Delmarva move by rail
 - * Infrastructure drastically improved
 - Taking some burden off highways

- First & last movements in agricultural supply chain are by truck
 - Anything affecting highway transportation has potential to impact other modes
 - + On Delmarva majority of all agricultural transportation is by truck only
- Two big transportation challenges in agribusiness involve highway transportation
 - + Congestion
 - + Infrastructure

× Congestion on Delmarva impacted by

- + Traffic growth in general
- + Seasonal recreational destinations
- × Both are problems on Delmarva
 - + After slight decline because of economics of "great recession"
 - × Traffic is on the rise
 - * Increases approximately 3% annually
 - + Tourism is recovering from recession also
 - × Leads to seasonal traffic problems

- × Congestion
 - + Can cost shippers and carriers additional costs from 50 to 250%
 - × Costs usually passed to consumer
 - × Increased costs sometimes lead to loss of business
- Congestion costs everyone not just agribusiness

× Infrastructure - highway infrastructure is decaying

- + Lack of funding
 - × Issues with federal highway trust fund
 - × Issues with state(s) highway trust funds
- × Concerns
 - + In 2000 U.S. transportation system was 2nd to none
 - + By 2020 China will have system equal to U.S.
 - Decaying U.S. infrastructure could lead to U.S. system becoming 2nd rate

- × Delaware infrastructure
 - + 16% of Delaware's major roads are in poor condition
 - + 20% of Delaware's bridges are structurally deficient or obsolete
 - + 34% of major urban highways are congested
 × Seasonal congestion in resort areas

× Maryland infrastructure

- + 21% of major roads have pavement rated in poor condition
- + 41% of major state maintained roads have deficient pavement
- + 25% of state maintained bridges are rated as structurally deficient or functionally obsolete
- + Congestion is a major problem on the western shore and a major seasonal problem on the eastern shore

- Funding of surface transportation system creates jobs
 - + Boosts in short-term by creating construction and construction-related jobs
 - + In long-term highway improvements
 - × Enhance economic competitiveness
 - × Reduce travel delays & transportation costs
 - × Stimulate job growth
 - + FHWA estimates each dollar spent on infrastructure improvements returns \$5.20 in benefits

- × Improving infrastructure
 - + Saves lives
 - × Road conditions are a significant factor in 1/3 of traffic fatalities
 - + Eases congestion
 - + Reduces vehicle maintenance costs
 - + Improves quality of life for everyone

SOLUTIONS TO TRANSPORTATION ISSUES

× Holistic approach to transportation

- + Look at U.S. transportation as single interlocking system
 - × Current oversight treats it as separate & disparate
- + Improve intermodal choke points
 - × Market is currently making improvements on its own
 - × Better cooperation between modes
- + IMPROVE INFRASTRUCTURE!
 - Continue to evolve, not devolve, United States transportation system

SOLUTIONS TO TRANSPORTATION ISSUES

× Thank you for your time & attention!

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